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Arizona Geological Survey
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Phoenix, AZ 85007
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http://www.azgs.az.gov
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12/13/90

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: SERENDIPITY

ALTERNATE NAMES:

MOHAVE COUNTY MILS NUMBER: 792

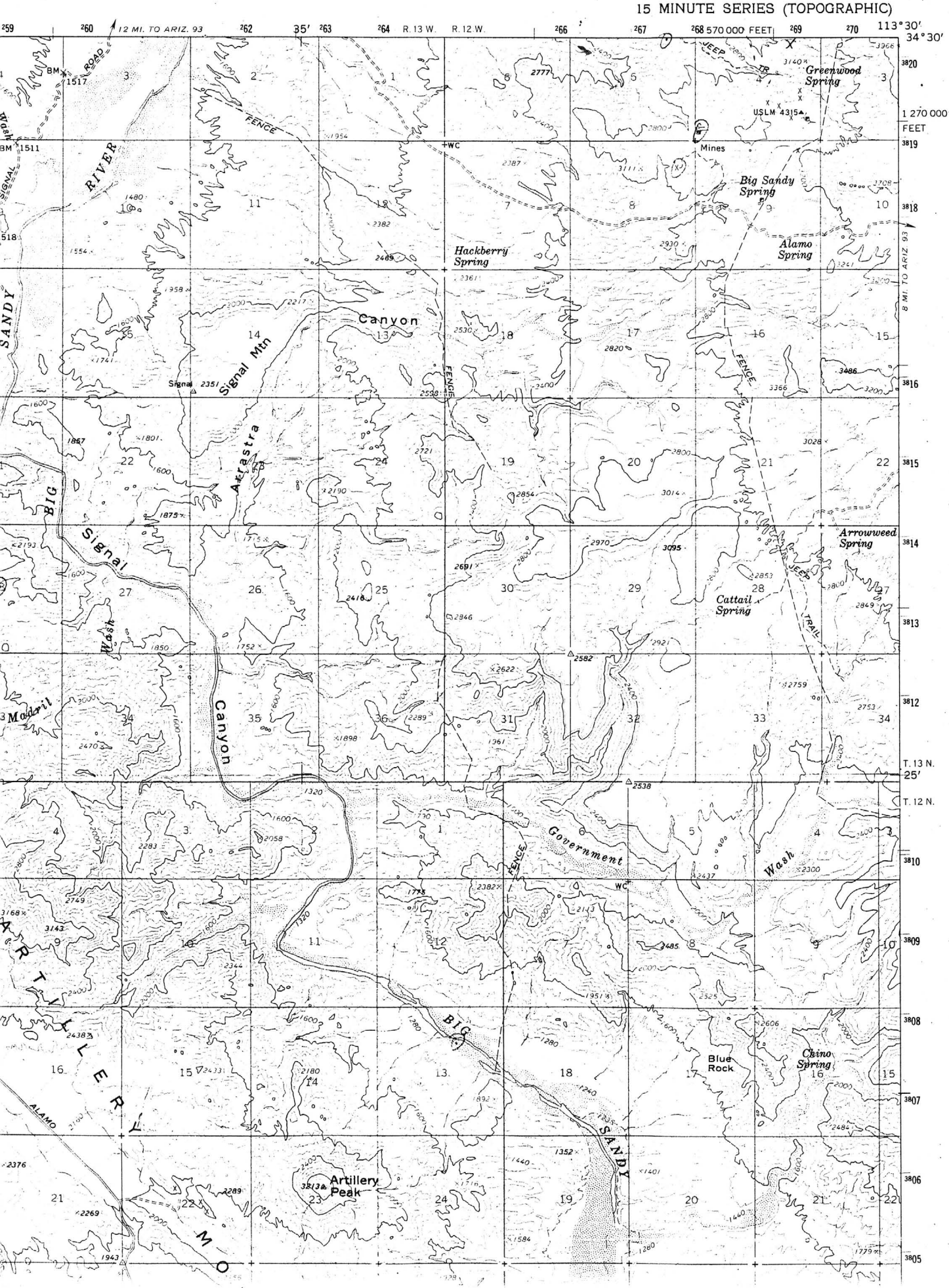
LOCATION: TOWNSHIP 13 N RANGE 12 W SECTION 4 QUARTER N2
LATITUDE: N 34DEG 29MIN 57SEC LONGITUDE: W 113DEG 31MIN 30SEC
TOPO MAP NAME: ARTILLERY PEAK - 15 MIN

CURRENT STATUS: UNKNOWN

COMMODITY:
URANIUM

BIBLIOGRAPHY:
ADMMR SERENDIPITY FILE

ARTILLERY PEAK QUADRANGLE
ARIZONA
15 MINUTE SERIES (TOPOGRAPHIC)



*MELVIN H. JONES*
*Mining Geologist*

6 May 1979.

RECEIVED
MAY 8 1979
DEPT. OF MINERAL RESOURCES
PHOENIX, ARIZONA

RECONNAISSANCE GEOLOGY EXAMINATION OF URANIUM POTENTIALITY, VICINITY OF GREENWOOD PEAK, MOHAVE COUNTY, ARIZONA.

On April 12, 1979, at the request of Mr. Henry Gonzales, the undersigned made a geological reconnaissance of the area Southwest of Greenwood Peak, Greenwood Mining District, Mohave County, Arizona, based on reported uranium occurance thereat. To find this location on maps, see USGS Quads.(Arizona) 'Greenwood Peak' and 'Artillery Peak' (Secs.3 and 4,R-12-W, T-13-N). The writer was accompanied on this trip by Henry Gonzales (Kingman,Az.), Glen Carlson(Wickieup,Az) and M.M. Jones (Wickenburg,Az.).

To get there, one turns off Highway 93 (near Burro Creek), South of Wickieup,Arizona, at milepost 143, and proceed on a dirt road to the West for 7½ miles. There, a poor (4 W/dr) road leads to the right. This is followed for some distance until it ends in the foothills of Greenwood Peak (highest mountain in vicinity). Actually, Mr. Gonzales(and associates) have two(2) mining claims there - Serendipity Nos.1 and 2. There is an old abandoned mine nearby to the Northeast, supposedly called the 'Greenwood' mine It is said to have produced some silver and gold ore many,many years ago. The mentioned Serendipity claims are about 2000 feet Southwest of the mentioned Peak, in Section 4, T-13-N,R-12-W. It was ascertained that this Section is Federal land, and that there are two(2) patented mining properties on same (one(1) is probably the mentioned mine). Time did not permit the orientation of the Serendipitys in relation to the ancient patented properties.

On Serendipity No.1, adjoining the poor road, is a small exploration pit. On Serendipity No.2 (to the South) is a shallow exploration adit (about 10 feet deep) which is on a hill inclining upwards to the South. This reveals a 2 foot wide vein, that dips vertically, and strikes South 25 West. Samples were taken from the mentioned localities, which will be discussed, infra.

GEOLOGY:

Greenwood Peak, and vicinity, are basically pre-Cambrian granitic rocks. The exact type was not petrologically determined, but they appear to be adamellites. Many schists and gniesses were noted. The quartz phenocrists appear to be unusually large. Adjoining the sample pit on Serendiptiy No.1, is the remenants of a quartz dyke that strikes North 20° West. Also noted in the vicinity are some small aplite formations. Outcrops of the mentioned $SiO_2$ dyke can be seen sporadically for some distance.

The general terrain of Serendipity No. 1 is relatively flat and is composed of detritus, which could now be called colluvium. The uranium containing minerals found there are 'pebble' sized float, and one has to examine or screen a considerable amount of this float before finding a $UO_2$ containing pebble. In say, five (5) minutes of careful digging, one can gather a handful of the radioactive material. It appears to be Uraninite to the writer. Others, in the past, at this area, have called it Pitchblende. Apparently, no one has explored the area sufficiently, to locate the source of this float with the sporadic radioactive pebbles. The Uraninite is probably hypogene in origin, and the 'pebble' ore

is originally from a hidden pegmatite formation adjoining the nearby quartz stratum.

On Serendipity No. 2, the described vein material was found to be slightly radioactive with a geiger counter. The vein is composed of a micaceous schist, consisting of seams of translucent white quartz laminated with black to yellow flakes of Biotite Mica. No valuable metals were indicated. The vein contact on the East appears to be felsite, and to the West are granitics.

DISCUSSION.

As to whether the uranium mineral is Uraninite or Pitchblende, is 'small potatoes'. Both are considered as primary minerals and Pitchblende is a colloform of Uraninite (USGS Bull.1250). Both are uranium oxides.

Some years ago, someone reported to the writer, of finding a few one-half (½) inch wide seams of a radioactive mineral. It was rarely found. This was found high up on the steep facies of the granitic rock on the sides of Greenwood Peak.

About two(2) miles Northwest from the Serendipity site (on the Leavis ranch - Sec.29,T-14-W,R-12-W.) is the old dormant Dungan Tungsten Mine which had both Scheelite and Wolframite. Some $WO_4$ ore had been shipped in the past. The writer visited there some years ago, and the thing that was interesting then was that the Dungan veins also carried some Rare Earths, with some Thorium and minor Uranium. The writer examined into these radio active elements and apparently no one had done this previously. A Spectrografic test showed the following (besides Tungsten):

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Th | .84% | La | 5.0% | Sm | .54% | Ho | .05% | | |
| U | .02% | Pr | 1.6% | Gd | .38% | Er | .12% | Y | .19% |
| Ce | 15.0% | Nd | 3.6% | Dy | .11% | Yb | .06% | | |

The listed Rare Earths, plus the U and Th, adds up to the mineral Allanite. On the same sample, the writer also had a chemical assay made revealing .01% $U_3O_8$ .

The Dungan mine is cited to show another location in the Greenwood Peak area that has uranium.

SAMPLE RESULTS (Serendipity claims):

| | | $U_3O_8$ (Chem assay) | Th + $UO_2$ (Radiometric) |
|---|---|---|---|
| Serendipity No.1 | (Small pebbles) | 0.048% (same sample) → | 1.0% |
| | (One large pebble) | No Chem.test made. | 4.0% |
| Serendipity No.2 | (chip sample across vein) | No Chem.test made. | 0.01% |

See remarks in paragraphs, supra, for sample locations.

CONCLUSIONS:

Additional exploration in the Greenwood Peak area is justified. Small bulldozer cuts on Serendipity No.1 would probably disclose the source of uranium bearing float. The sampling mentioned above does not reveal commercial quality and/or quanity uranium ore.

MELVIN H JONES
Mining Geologist.

Box 1196
Wickenburg,Az.85358.

**FLUO** RESCENT
**X** RAY
**SPEC** TROGRAPHIC
alytical Laboratory

718 Sherman Street (rear)
Denver, Colorado 80203
Phone 255-9396
Merlyn L. Salmon, Manager

XXXX QUALITATIVE
XXXX SEMI-QUANTITATIVE
____ QUANTITATIVE

# ANALYTICAL REPORT

Job Number 14531
Page 1 of 1 Pages
Date 4 May 1972

TO: M. Jones

SAMPLE: Greenwood

NOTE: The values below are estimated percentages for the metal equivalent of the indicated elements. No check was made for elements with atomic numbers less than 22 (below titanium).

| | | | | | |
|---|---|---|---|---|---|
| Copper | 0.010 | Iron | 2.5 | Lanthanum | 5.0 |
| Silver | | Cobalt | | Cerium | 15. |
| Gold | | Nickel | 0.003 | Praseodymium | 1.6 |
| Zinc | 0.015 | Cesium | | Neodymium | 3.6 |
| Cadmium | | Rubidium | 0.013 | Samarium | 0.54 |
| Mercury | | Barium | | Europium | |
| Gallium | | Strontium | 0.027 | Gadolinium | 0.38 |
| Indium | | Titanium | 0.16 | Terbium | |
| Thallium | | Zirconium | | Dysprosium | 0.11 |
| Germanium | | Hafnium | | Holmium | 0.050 |
| Tin | 0.015 | Thorium | 0.84 | Erbium | 0.12 |
| Lead | 0.078 | Vanadium | | Thulium | |
| Arsenic | | Columbium | | Ytterbium | 0.060 |
| Antimony | | Tantalum | | Lutetium | |
| Bismuth | | Chromium | | Yttrium | 0.19 |
| Selenium | | Molybdenum | | | |
| Tellurium | | Tungsten | | | |
| Bromine | | Uranium | 0.020 | | |
| Iodine | | Manganese | 1.1 | | |

RE of this gr.

Juney Lea P. Ranny

(Lower Allanite)

Not Euxenite nor Polycrase –
(Doesn't have Ti – Cb – Ta ratio of 3:1 ← (RE))
$Fe\,Th\,Y\,Ca\,Sr\,(SiO_4)_3\,(OH)$
Note absence of Ta, Cb and little Ti in spec. report
(Ce Ce.) get slight $PO_4$ reaction w/ HCL – KMnO.

By Merlyn L. Salmon

NOTE: A PORTION OF THE REPORTED SAMPLES WILL BE RETAINED ON FILE FOR A PERIOD OF FIVE YEARS FROM THE ABOVE DATE. THE REMAINDER OF THE SAMPLE WILL BE RETAINED FOR THIRTY DAYS PENDING RECEIPT OF WRITTEN INSTRUCTIONS FOR DISPOSAL FROM THE ADDRESSEE ABOVE.

# ASSAY CERTIFICATE

McFARLAND & HULLINGER

IRON KING UNIT

Melvin H. Jones
Box406

Wickenburg, Ariz.

HUMBOLDT, ARIZONA

DATE Feb. 17 1969

| | DESCRIPTION | Au | Ag | $U_3O_8$ | Fe | Pb | Zn | Cu |
|---|---|---|---|---|---|---|---|---|
| | Sample Lievas | | | 0.01 | | | | |
| | Charge=$7.00 | | | | | | | |

REGISTERED ASSAYER
CERTIFICATE EXPIRES
WALTER G. STATLER
DEC. 31, 1969
ARIZONA, U.S.A.

ASSAYER Walter G. Statler

20 Feb 1969

Dear Mr. Reed:

I usually don't care to go to so much bother to prove that someone is wrong, but in your case, you are.

First on your report you say, "Radioactivity - 0". That sample will kick any geiger counter over on the 1st scale. See attached Iron King chemical assay. Further, I have a speck on the same from Metallurgical Laboratories, at SF showing U. as being 1.0 to 10.0 . I think they are about right. I sent them a Xtal for their testing (as I did to you). The Chem. assay of the Iron King was a 10 lb sample that was mostly matrix.

May I suggest that you get on the beam.

Cordially,

Melvin H Jones

Melvin H Jones
Mining geologist.

**METALLURGICAL LABORATORIES**

CHEMISTS • ASSAYERS • SPECTROGRAPHERS

1142 HOWARD STREET • SAN FRANCISCO 3, CALIFORNIA
UNDERHILL 3-8575

**Date** September 26, 1963

**Submitted by** Mr. Melvin H. Jones
Box 386
Yarnell, Arizona

**Sample of** Mineral #2

# Qualitative Spectrographic Analysis

## METALS FOUND AND PERCENTAGE RANGE

| LESS THAN 0.01% | .01 TO .10% | .10 TO 1.0% | 1.0 TO 10.0% | MAJOR | LAB NO. |
|---|---|---|---|---|---|
| Bismuth | Zinc | Calcium | Columbium | Rare Earths | 9313-2 |
| Nickel | Vanadium | Manganese | Uranium | Silicon | |
| Cobalt | Tin | Aluminum | Titanium | | |
| Strontium | | Lead | Iron | | |
| Chromium | | Magnesium | | | |
| Copper | | Sodium | | | |
| Boron | | Potassium | | | |
| Silver | | Zirconium | | | |
| | | Tantalum | | | |

Signal area (Polycrase)

**REMARKS:** Complex Spectrum difficult to resolve

METALLURGICAL LABORATORIES

By [signature]
SPECTROCHEMIST

**METALLURGICAL LABORATORIES**

CHEMISTS • ASSAYERS • SPECTROGRAPHERS

1142 HOWARD STREET • SAN FRANCISCO 3, CALIFORNIA
UNDERHILL 3-8575

**Date** September 26, 1963

**Submitted by** Mr. Melvin H. Jones
Box 386
Yarnell, Arizona

**Sample of** Mineral #1

# Qualitative Spectrographic Analysis

## METALS FOUND AND PERCENTAGE RANGE

| LESS THAN 0.01% | .01 TO .10% | .10 TO 1.0% | 1.0 TO 10.0% | MAJOR | LAB NO. |
|---|---|---|---|---|---|
| Tin | Zirconium | Uranium | Silicon | Tungsten | 9313-1 |
| Strontium | Lead | Titanium | Rare Earths | Calcium | |
| Copper | Zinc | Magnesium | Iron | | |
| Chromium | Vanadium | Sodium | Manganese | | |
| Boron | Tantalum | Potassium | Aluminum | | |
| Nickel | | | Columbium | | |
| Cobalt | | | | | |
| Silver | | | | | |
| | Signal | area | Tungsten prospect | | |

**REMARKS:** Complex Spectrum difficult to resolve

METALLURGICAL LABORATORIES

By [signature]
SPECTROCHEMIST

OUR MOTTO: — WHAT THERE IS IN IT, NO MORE NO LESS.

EDMUND E. PHILLIPS, Vice-Pres.—Gen. Mgr.

M. E. PHILLIPS, Secretary

# THE COLORADO ASSAYING COMPANY

(INCORPORATED)

## ASSAYERS AND CHEMISTS

303—623-2842 2244 BROADWAY

DENVER, COLORADO 80201 May 3, 1979

REPORT ON DETERMINATIONS MADE FOR—

Mr. Melvin Jones
Box #1196
Wickenburg, Arizona 85358

| SAMPLE MARKS | METALS | Amount per Ton Ozs. | Amount per Ton Hds. | PER CENT | Value per Ton Dollars | Value per Ton Cents |
|---|---|---|---|---|---|---|
| Serendipity | Uranium Oxide ($U_3O_8$) | | | 0.048% | | |
| Note: This sample contain a little Thorium and Rare Earths. | | | | | | |

THE COLORADO ASSAYING COMPANY

GOLD AT_____PER OUNCE SILVER AT_____PER OUNCE

LEAD AT_____PER UNIT COPPER AT_____PER UNIT

By Ed Phillips

OUR MOTTO: — WHAT THERE IS IN IT, NO MORE NO LESS.

EDMUND E. PHILLIPS, Vice-Pres.—Gen. Mgr. M. E. PHILLIPS, Secretary

# THE COLORADO ASSAYING COMPANY

(INCORPORATED)

## ASSAYERS AND CHEMISTS

303—623-2842 2244 BROADWAY

DENVER, COLORADO 80201 May 2, 1979

REPORT ON DETERMINATIONS MADE FOR —

Mr. Melvin H. Jones
P. O. Box #1196
Wickenburg, Arizona 85358

| SAMPLE MARKS | METALS | Amount per Ton Ozs. | Amount per Ton Hds. | PER CENT | | Value per Ton Dollars | Value per Ton Cents |
|---|---|---|---|---|---|---|---|
| "Greenwood" | | | | | | | |

IDENTIFICATION

This sample is a Mica Schist rock.

It consists of the seams of hard translucent white Quartz (silica) laminated alternately with the near-black to golden yellow flakes of Biotite Mica (potassium, magnesium, iron aluminum silicate).

The sample is slightly radioactive, indicating a content of uranium up to 0.03 tO 0.04%, or Thorium up to 0.1%

There are no indications of the presence of any other valuable metals.

THE COLORADO ASSAYING COMPANY

GOLD AT_____PER OUNCE SILVER AT_____PER OUNCE

LEAD AT_____PER UNIT COPPER AT_____PER UNIT

By Ed Phillips

REV. FORM
REV. 01.1951

FILE 6-8-6

PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. M. West and D. L. Bellani

DATE(S) EXAMINED January 21, 1953

1. [illegible]

| NUMBER | TYPE AND WIDTH | RADIOACTIVITY CU | RADIOACTIVITY U |
|---|---|---|---|
| F-0100 | Chip, 1' | 0.078 | 0.11 |
| F-0101 | Sel. Chip, 10" | 0.21 | 0.36 |
| F-0128 | Channel, 3.3' | 0.016 | |
| F-0129 | Channel, 2.4' | 0.021 | |
| F-0130 | Channel, 3.8' | 0.020 | 0.013 |
| F-0131 | Channel, 3.2' | 0.047 | 0.066 |
| F-0132 | Channel, 3.3' | 0.054 | |
| F-0133 | Channel, 2.7' | 0.031 | |
| F-0134 | Channel, 2.4' | 0.017 | 0.007 |
| F-0135 | Channel, 2.5' | 0.041 | |
| F-0136 | Channel, 3.5' | 0.048 | <0.003 |

2. STATE Arizona COUNTY Mohave

DISTRICT Cerbat Mining District

NEAREST TOWN Signal, Arizona

PROPERTY State Mine

LOCATION:
SE¼ sec. 4 T. 13N R. 19W

3. TYPE OF EXAMINATION:
Scintillometer: surface and underground

4. DIRECTIONS TO DEPOSIT:
Nine miles east of Signal, Arizona, through the first wash after making the crossing through the Sandy River 5 miles NE from Signal.

5. OWNER OR OPERATOR: D. M. Berger
ADDRESS: Kingman, Arizona

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:

Production unknown. 150' x-cut tunnel, 35' inclined shaft, 65' drift, & surface trenches.

7. RADIOACTIVITY. Maximum scintillometer readings: 500 cps in 150' x-cut tunnel 100' from portal on west wall. Background 100 cps. Max. Geiger counter reading .15 MR/hr at 120' from portal in 150' x-cut tunnel.

8. DESCRIPTION OF DEPOSIT *(Discuss under: A. Topography, B. Geology, C. Mineralogy)*

A. Rolling hills with deep washes, jeep road to mine up wash.

B. 6' gold quartz vein striking N.60°W, dipping 35° S., in a host rock of pink coarse granite porphyry. Vein is composed of quartz with hematite bands.

C. Quartz, gold, silver, hematite, limonite.

11. PROOF OF OWNERSHIP RECEIVED? No
PERMISSION TO PUBLISH RECEIVED? No

12. MAP None

13. OTHER INVESTIGATIONS:

Unknown.

14. ADDITIONAL INFORMATION:

None

15. SUPPLEMENTARY RECONNAISSANCE REPORT TO FOLLOW? No

4-27

RM
6/61

FILE A-34

PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY R. L. Robison
DATE(S) EXAMINED 9/30/55

2. STATE Arizona COUNTY Mohave
DISTRICT Greenwood
NEAREST TOWN Wikieup
PROPERTY Hadrill and Ledval Claims

1. SAMPLES

| NUMBER | TYPE AND WIDTH | RADIOACTIVITY |
|---|---|---|
| | | $U_3O_8$ |
| A-3689-1 | Select | 0.07 |
| A-3689-2 | Select (Samarskite) | 8.0 |

LOCATION:
SEC. 29 T. 14 N R. 12 W

3. TYPE OF EXAMINATION:
Surface Radiometric

4. DIRECTIONS TO DEPOSIT: From Wikieup go S on Highway 93 approximately 9 mi.; turn R on Signal Road; proceed 7.9 mi.; turn L and go 1.4 mi. to ranch; follow jeep road 2.8 mi. to property.

5. OWNER OR OPERATOR: R. J. Fitzpatrick
ADDRESS: 9034 South Budlong Avenue, Los Angeles 44, California

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: Previously mined for tungsten. One 100' adit and 7 prospect pits.

7. RADIOACTIVITY: B.G. 0.03 MR/hr.
Max. 1.20 MR/hr.

8. DESCRIPTION OF DEPOSIT *(Discuss under: A. Topography, B. Geology, C. Mineralogy)*

A. Very rough mountainous terrain.

B. Several large pegmatite dikes trending NE-SW through pre-Cambrian granite.

C. Samarskite and allanite.

[redacted]

11. PROOF OF OWNERSHIP RECEIVED? NO
PERMISSION TO PUBLISH RECEIVED? NO

12. MAP:

NONE

13. OTHER INVESTIGATIONS:

NONE

14. ADDITIONAL INFORMATION:

NONE

15. SUPPLEMENTARY RECONNAISSANCE REPORT TO FOLLOW? NO

[redacted]

3

428

SLEG
3/5/56

FILE A-81*

# PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY R. L. Robison
DATE(S) EXAMINED 1-17-56

2. STATE Arizona COUNTY Mohave
DISTRICT Artillery Mountains
NEAREST TOWN Stovall
PROPERTY Candy Bar Gp.

LOCATION: Unsurveyed
SEC. ____ T. ____ R. ____

1. SAMPLES

| NUMBER | TYPE AND WIDTH | RADIOACTIVITY |
|---|---|---|
| A 12159-1 | Chip | .05 $eU_3O_8$ |
| A 12159-2 | Grab | .07 " |

3. TYPE OF EXAMINATION:

Surface Radiometric

4. DIRECTIONS TO DEPOSIT: Where Stovall Road crosses the Bill Williams River, turn up river on jeep road. At junction of Santa Maria and Big Sandy take left fork up Big Sandy. Follow for 6.3 miles to property.

5. OWNER OR OPERATOR:
ADDRESS: J. H. Saunders
Wenden, Arizona

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:

One small (10') adit

7. RADIOACTIVITY:

Scintillator III BG .02 MR/hr.
High .90 MR/hr.

8. DESCRIPTION OF DEPOSIT *(Discuss under: A. Topography, B. Geology, C. Mineralogy)*

A. Sharp high ridges with steep north slope and more gentle south slope. Deep narrow canyons.

B. Bedded mudstones and sandstones, overlain by red volcanic flow rock, and underlain by red conglomerate. A repetition of beds is evident from one wash to the next indicating step faulting. Radioactive beds of 3' and 5" were noted and could be followed for several hundred yards laterally. Area is highly faulted.

C. No uranium mineral was evident.

[redacted]

11. PROOF OF OWNERSHIP RECEIVED? No
PERMISSION TO PUBLISH RECEIVED? No

12. MAP:

None

13. OTHER INVESTIGATIONS:

None

14. ADDITIONAL INFORMATION:

None

15. SUPPLEMENTARY RECONNAISSANCE REPORT TO FOLLOW? Yes

[redacted]

4

SLEB
8/53/54

4/29

FILE A-82

PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY R. L. Robinson
DATE(S) EXAMINED 1-19-56

2. STATE Arizona COUNTY Mohave
DISTRICT Artillery Mountains
NEAREST TOWN Stovall
PROPERTY Lucky Four Property
42 Claims

LOCATION: Unsurveyed
SEC. ____ T. ____ R. ____

1. SAMPLES

| NUMBER | TYPE AND WIDTH | RADIOACTIVITY |
|---|---|---|
| A 12160 | Select | .02 eU3O8 |

3. TYPE OF EXAMINATION:

Surface Radiometric

4. DIRECTIONS TO DEPOSIT: At western edge of Stovall camp near Alamo, take right fork; go 1.0 miles and take right fork; go 2.5 miles farther bearing left at next 3 forks; turn right on private jeep road and proceed 1.0 miles to property.

5. OWNER OR OPERATOR:
ADDRESS: James Dollarhide - Clifford Dollarhide - R. T. Fussell - Roy MacDonald
Box 242, Congress Junction, Arizona

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:

13 dozer cuts on ore horizon and location cuts

7. RADIOACTIVITY:

Scintillator III BG .01 MR/hr.
High .15 MR/hr.

8. DESCRIPTION OF DEPOSIT *(Discuss under: A. Topography, B. Geology, C. Mineralogy)*

A. Basin between two high mountains moderately high, steep sloped ridges between deep, narrow washes.

B. 5' carbonaceous bed in mudstone-limestone series beneath a thrust sheet of gneiss. Can be traced laterally for approximately 1 mile with abundant faulting on either end. Uranium minerals occur as thin secondary coatings on fractures of siliceous material and limestone.

C. Thin coating of tyuyamunite and carnotite on fractures.

[redacted]

11. PROOF OF OWNERSHIP RECEIVED? No
PERMISSION TO PUBLISH RECEIVED? No

12. MAP:

None

13. OTHER INVESTIGATIONS:

None

14. ADDITIONAL INFORMATION:

15. SUPPLEMENTARY RECONNAISSANCE REPORT TO FOLLOW? No

[redacted]

5

(3)

FILE A-68

PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY M. L. Reymer and R. L. Robison
DATE(S) EXAMINED 3/7/56

2. STATE Arizona COUNTY Mohave

DISTRICT Artillery Mountains

NEAREST TOWN Signal

PROPERTY Masterson Group (10 claims)

LOCATION: SEC. 22 T. 12 N R. 13 W

1. SAMPLES

| NUMBER | TYPE AND WIDTH | RADIOACTIVITY | |
|---|---|---|---|
| | | $eU_3O_8$ | $cU_3O_8$ |
| A-12071 | 2' chip | .08 | 0.10 |

3. TYPE OF EXAMINATION:

Surface radiometric.

4. DIRECTIONS TO DEPOSIT: From Brown's Crossing follow new Signal road NW for 5.4 miles. Turn right on private road and go 0.7 miles to property.

5. OWNER OR OPERATOR: B. J. Masterson and L. M. Burrows
ADDRESS: Box 167
Kingman, Arizona

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:
Three small prospect pits and four wagon drill holes.

7. RADIOACTIVITY: El Tronics Counter
B.G. .03 MR/hr.
Max. 1.20 MR/hr.

8 DESCRIPTION OF DEPOSIT *(Discuss under: A. Topography, B. Geology, C. Mineralogy)*

A. Parallel E-W ridges and narrow steep walled washes in Artillery Mountains.

B. Limestone and mudstone beds of the Eocene(?) Artillery Formation striking E-W and dipping from 30° - 45°S. Radioactive bed is approximately 100' above Precambrian granite and can be traced for several hundred feet with minor offsets due to small cross faults. Mineralized bed is one to two feet thick and contains some carbonaceous material. A few palm-type fragments were noted.

C. No uranium minerals were observed. Some limonite is present. The radioactive zone appears bleached and may be sheared.

11. PROOF OF OWNERSHIP RECEIVED? No
PERMISSION TO PUBLISH RECEIVED? No

12. MAP: None

13. OTHER INVESTIGATIONS: None

14. ADDITIONAL INFORMATION: None

15. SUPPLEMENTARY RECONNAISSANCE REPORT TO FOLLOW? Yes

7

65.

65.

Uranium Potentiality
Greenwood Mining District, Greenwood
Peak, Mohave county, Arizona.

DONATED BY MEL JONES ESTATE

*MELVIN H. JONES*
*Mining Geologist*

6 May 1979.

RECONNAISSANCE GEOLOGY EXAMINATION OF URANIUM POTENTIALITY, VICINITY OF GREENWOOD PEAK, MOHAVE COUNTY, ARIZONA.

On April 12, 1979, at the request of Mr. Henry Gonzales, the undersigned made a geological reconnaissance of the area Southwest of Greenwood Peak, Greenwood Mining District, Mohave County, Arizona, based on reported uranium occurance thereat. To find this location on maps, see USGS Quads.(Arizona) 'Greenwood Peak' and 'Artillery Peak' (Secs.3 and 4,R-12-W, T-13-N). The writer was accompanied on this trip by Henry Gonzales (Kingman,Az.), Glen Carlson(Wickieup,Az) and M.M. Jones (Wickenburg,Az.).

To get there, one turns off Highway 93 (near Burro Creek), South of Wickieup,Arizona, at milepost 143, and proceed on a dirt road to the West for 7½ miles. There, a poor (4 W/dr) road leads to the right. This is followed for some distance until it ends in the foothills of Greenwood Peak (highest mountain in vicinity). Actually, Mr. Gonzales(and associates) have two(2) mining claims there - Serendipity Nos.1 and 2. There is an old abandoned mine nearby to the Northeast, supposedly called the'Greenwood' mine It is said to have produced some silver and gold ore many,many years ago. The mentioned Serendipity claims are about 2000 feet Southwest of the mentioned Peak, in Section 4, T-13-N,R-12-W. It was ascertained that this Section is Federal land, and that there are two(2) patented mining properties on same (one(1) is probably the mentioned mine). Time did not permit the orientation of the Serendipitys in relation to the ancient patented properties.

On Serendipity No.1, adjoining the poor road, is a small exploration pit. On Serendipity No.2 (to the South) is a shallow exploration adit (about 10 feet deep) which is on a hill inclining upwards to the South. This reveals a 2 foot wide vein, that dips vertically, and strikes South 25 West. Samples were taken from the mentioned localities, which will be discussed, infra.

GEOLOGY:

Greenwood Peak, and vininity, are basically pre-Cambrian granitic rocks. The exact type was not petrologically determined, but they appear to be adamellites. Many schists and gniesses were noted. The quartz phenocrists appear to be unusually large. Adjoining the sample pit on Serendiptiy No.1, is the remenants of a quartz dyke that strikes North 20° West. Also noted in the vicinity are some small aplite formations. Outcrops of the mentioned $SiO_2$ dyke can be seen sporadically for some distance.

The general terrain of Serendipity No. 1 is relatively flat and is composed of detritus, which could now be called colluvium. The uranium containing minerals found there are 'pebble' sized float, and one has to examine or screen a considerable amount of this float before finding a $UO_2$ containing pebble. In say, five (5) minutes of careful digging, one can gather a handful of the radioactive material. It appears to be Uraninite to the writer. Others, in the past, at this area, have called it Pitchblende. Apparently, no one has explored the area sufficiently, to locate the source of this float with the sporadic radioactive pebbles. The Uraninite is probably hypogene in origin, and the 'pebble' ore

is originally from a hidden pegmatite formation adjoining the nearby quartz stratum.

On Serendipity No. 2, the described vein material was found to be slightly radioactive with a geiger counter. The vein is composed of a micaceous schist, consisting of seams of translucent white quartz laminated with black to yellow flakes of Biotite Mica. No valuable metals were indicated. The vein contact on the East appears to be felsite, and to the West are granitics.

DISCUSSION.

As to whether the uranium mineral is Uraninite or Pitchblende, is'small potatoes'. Both are considered as primary minerals and Pitchblende is a colloform of Uraninite (USGS Bull.1250). Both are uranium oxides.

Some years ago, someone reported to the writer, of finding a few one-half ($\frac{1}{2}$) inch wide seams of a radioactive mineral. It was rarely found. This was found high up on the steep facies of the granitic rock on the sides of Greenwood Peak.

About two(2) miles Northwest from the Serendipity site (on the Leavis ranch - Sec.29,T-14-W,R-12-W.) is the old dormant Dungan Tungsten Mine which had both Scheelite and Wolframite. Some $WO_4$ ore had been shipped in the past. The writer visited there some years ago, and the thing that was interesting then was that the Dungan veins also carried some Rare Earths, with some Thorium and minor Uranium. The writer examined into these radio active elements and apparently no one had done this previously. A Spectrografic test showed the following (besides Tungsten):

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Th | .84% | La | 5.0% | Sm | .54% | Ho | .05% | | |
| U | .02% | Pr | 1.6% | Gd | .38% | Er | .12% | Y | .19% |
| Ce | 15.0% | Nd | 3.6% | Dy | .11% | Yb | .06% | | |

The listed Rare Earths, plus the U and Th,adds up to the mineral Allanite. On the same sample, the writer also had a chemical assay made revealing .01% $U_3O_8$ .

The Dungan mine is cited to show another location in the Greenwood Peak area that has uranium.

SAMPLE RESULTS (Serendipity claims):

| | | $U_3O_8$ (Chem assay) | Th + $UO_2$(Radiometric) |
|---|---|---|---|
| Serendipity No.1 | (Small pebbles) | 0.048% (same sample) → | 1.0% |
| | (One large pebble) | No Chem.test made. | 4.0% |
| Serendipity No.2 | (chip sample across vein) | No Chem.test made. | 0.01% |

See remarks in paragraphs, supra, for sample locations.

CONCLUSIONS:

Additional exploration in the Greenwood Peak area is justified. Small bulldozer cuts on Serendipity No.1 would probably disclose the source of uranium bearing float. The sampling mentioned above does not reveal commercial quality and/or quanity uranium ore.

MELVIN H JONES
Mining Geologist.

Box 1196
Wickenburg,Az.85358.

**FLUO** RESCENT
**X** RAY
**SPEC** TROGRAPHIC
Analytical Laboratory

718 Sherman Street (rear)
Denver, Colorado 80203
Phone 255-9396
Merlyn L. Salmon, Manager

XXXX QUALITATIVE
XXXX SEMI-QUANTITATIVE
____ QUANTITATIVE

# ANALYTICAL REPORT

Job Number 14531
Page 1 of 1 Pages
Date 4 May 1972

TO: M. Jones

NOTE: The values below are estimated percentages for the metal equivalent of the indicated elements. No check was made for elements with atomic numbers less than 22 (below titanium).

SAMPLE: Greenwood

| | | | | | |
|---|---|---|---|---|---|
| Copper | 0.010 | Iron | 2.5 | Lanthanum | 5.0 |
| Silver | | Cobalt | | Cerium | 15. |
| Gold | | Nickel | 0.003 | Praseodymium | 1.6 |
| Zinc | 0.015 | Cesium | | Neodymium | 3.6 |
| Cadmium | | Rubidium | 0.013 | Samarium | 0.54 |
| Mercury | | Barium | | Europium | |
| Gallium | | Strontium | 0.027 | Gadolinium | 0.38 |
| Indium | | Titanium | 0.16 | Terbium | |
| Thallium | | Zirconium | | Dysprosium | 0.11 |
| Germanium | | Hafnium | | Holmium | 0.050 |
| Tin | 0.015 | Thorium | 0.84 | Erbium | 0.12 |
| Lead | 0.078 | Vanadium | | Thulium | |
| Arsenic | | Columbium | | Ytterbium | 0.060 |
| Antimony | | Tantalum | | Lutetium | |
| Bismuth | | Chromium | | Yttrium | 0.19 |
| Selenium | | Molybdenum | | | |
| Tellurium | | Tungsten | | | |
| Bromine | | Uranium | 0.020 | | |
| Iodine | | Manganese | 1.1 | | |

RE of this gr.

Jerry Lewis Ranch

Lower Allanite

(Ce Ce La) Fe Th Y Ca Sr $(SiO_4)_3$ (OH)

Not Euxenite nor Polycrase –
(Does not have Ti – Cb – Ta ratio of 3:1 ← (RE))

Note absence of Ta, Cb and little Ti in spec. report

get slight $PO_4$ reaction w/ HCL – KMnO.

By Merlyn L. Salmon

NOTE: A PORTION OF THE REPORTED SAMPLES WILL BE RETAINED ON FILE FOR A PERIOD OF FIVE YEARS FROM THE ABOVE DATE. THE ... RECEIPT OF WRITTEN INSTRUCTIONS FOR DISPOSAL FROM THE

# Reed Engineering

620 South Inglewood Avenue
Inglewood 1, California

FEB 23 1969

FEB

M. Jones
Wickenburg, Az

Dear Mr. Jones:

While the report you have enclosed does show a Uranium Oxide, I can not see any significance or commercial value in it. The figure of "0.01", I assume to be .01 %. Our AEC standards begin at .5%. Our counters do not register below .05%. Your sample is not radioactive unless it is above .05% as far as I am concerned. I suggest your problem is indeed your problem, and not anything we can correct.

Our tests are Radiometric, and not chemical, and must of necessity, have a cutoff point of .05%, whereas a chemical test could possibly exceed this sensitivity.

Cordially,

P. Reed

P. Reed, Assayer

20 Feb 1969

Dear Mr. Reed:

I usually don't care to go to so much bother to prove that someone is wrong, but in your case, you are.

First on your report you say, "Radioactivity - 0". That sample will kick any geiger counter over on the 1st scale. See attached Iron King chemical assay. Further, I have a speck on the same from Metallurgical Laboratories, at SF showing U. as being 1.0 to 10.0 . I think they are about right. I sent them a Xtal for their testing (as I did to you). The Chem. assay of the Iron King was a 10 lb sample that was mostly matrix.

May I suggest that you get on the beam.

Cordially,

Melvin H Jones

Melvin H Jones
Mining geologist.

# Reed Engineering

620 South Inglewood Avenue
Inglewood 1, California

1969

Mr. M. Jones
Box 406
Wickenburg, Az
85358

Dear Mr. Jones:

Thank you for writing about your reports. After re-examining the spectra of your samples run January 27, 1969, have concluded that the reports you received were essentially correct.

Our analysis of rare earth content is absolute, and extremely sensitive. The rare earth is either present or it is not. Tungsten is less absolute, as we can only detect tungsten in amounts of .1% and greater. Lesser amounts remain undetected. Radioactivity is not absolute and is compared to Atomic Energy Commission standards when present in a sample.

Unfortunately, we no longer have your samples to double check the radioactivity of each, but apparently, the radioactivity of your samples was not sufficient for such comparison, and was not sufficiently strong enough to register above our background count. Perhaps at your location, the radioactive background is considerably lower than here, and in such case, you would detect radioactivity that we could not.

The spectra of your samples does not indicate any economic importance other than that already stated on each report and is, in this respect, essentially correct. While your samples are not valuable on the basis of our reports, if you do have reports from 2 or more assayers showing your samples to be of value and our reports to be in gross error, which they would be in such a case, all you would have to do is to send us copies of these reports, and we will be happy to refund your money for each sample shown to be of value, as well as all copies of reports we receive from you.

Cordially,

P. Reed

P. Reed, Assayer

# Reed Engineering

FEB - 7 1969

620 South Inglewood Avenue
Inglewood 1, California

Mr. M. Jones
Box 406
Wickenburg, Az
85358

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Cordially,

P. Reed

P. Reed, Assayer

**METALLURGICAL LABORATORIES** CHEMISTS • ASSAYERS • SPECTROGRAPHERS

1142 HOWARD STREET • SAN FRANCISCO 3, CALIFORNIA
UNDERHILL 3-8575

**Date** September 26, 1963

**Submitted by** Mr. Melvin H. Jones
Box 386
Yarnell, Arizona

**Sample of** Mineral #2

# Qualitative Spectrographic Analysis

## METALS FOUND AND PERCENTAGE RANGE

| LESS THAN 0.01% | .01 TO .10% | .10 TO 1.0% | 1.0 TO 10.0% | MAJOR | LAB NO. |
|---|---|---|---|---|---|
| Bismuth | Zinc | Calcium | Columbium | Rare Earths | 9313-2 |
| Nickel | Vanadium | Manganese | Uranium | Silicon | |
| Cobalt | Tin | Aluminum | Titanium | | |
| Strontium | | Lead | Iron | | |
| Chromium | | Magnesium | | | |
| Copper | | Sodium | | | |
| Boron | | Potassium | | | |
| Silver | | Zirconium | | | |
| | | Tantalum | | | |

Signal does (Polycrase)

**REMARKS:** Complex Spectrum difficult to resolve

METALLURGICAL LABORATORIES

By [signature]
SPECTROCHEMIST

**METALLURGICAL LABORATORIES** CHEMISTS • ASSAYERS • SPECTROGRAPHERS

1142 HOWARD STREET • SAN FRANCISCO 3, CALIFORNIA
UNDERHILL 3-8575

**Date** September 26, 1963

**Submitted by** Mr. Melvin H. Jones
Box 386
Yarnell, Arizona

**Sample of** Mineral #1

# Qualitative Spectrographic Analysis

## METALS FOUND AND PERCENTAGE RANGE

| LESS THAN 0.01% | .01 TO .10% | .10 TO 1.0% | 1.0 TO 10.0% | MAJOR | LAB NO. |
|---|---|---|---|---|---|
| Tin | Zirconium | Uranium | Silicon | Tungsten | 9313-1 |
| Strontium | Lead | Titanium | Rare Earths | Calcium | |
| Copper | Zinc | Magnesium | Iron | | |
| Chromium | Vanadium | Sodium | Manganese | | |
| Boron | Tantalum | Potassium | Aluminum | | |
| Nickel | | | Columbium | | |
| Cobalt | | | | | |
| Silver | | | | | |
| | Signal | area | Tungsten prospect | | |

**REMARKS:** Complex Spectrum difficult to resolve

**METALLURGICAL LABORATORIES**

By [signature]
SPECTROCHEMIST

OUR MOTTO: — WHAT THERE IS IN IT, NO MORE NO LESS.

EDMUND E. PHILLIPS, Vice-Pres.—Gen. Mgr.

M. E. PHILLIPS, Secretary

# THE COLORADO ASSAYING COMPANY
(INCORPORATED)

## ASSAYERS AND CHEMISTS

303—623-2842 2244 BROADWAY
DENVER, COLORADO 80201 May 3, 1979

REPORT ON DETERMINATIONS MADE FOR —

Mr. Melvin Jones
Box #1196
Wickenburg, Arizona 85358

| SAMPLE MARKS | METALS | Amount per Ton Ozs. | Amount per Ton Hds. | PER CENT | Value per Ton Dollars | Value per Ton Cents |
|---|---|---|---|---|---|---|
| Serendipity | Uranium Oxide ($U_3O_8$) | | | 0.048% | | |
| Note: This sample contain a little Thorium and Rare Earths. | | | | | | |

THE COLORADO ASSAYING COMPANY

By Ed Phillips

GOLD AT_____PER OUNCE SILVER AT_____PER OUNCE
LEAD AT_____PER UNIT COPPER AT_____PER UNIT

OUR MOTTO: — WHAT THERE IS IN IT, NO MORE NO LESS.

EDMUND E. PHILLIPS, Vice-Pres.—Gen. Mgr.

M. E. PHILLIPS, Secretary

# THE COLORADO ASSAYING COMPANY

(INCORPORATED)

## ASSAYERS AND CHEMISTS

303—623-2842 2244 BROADWAY

DENVER, COLORADO 80201 May 2, 1979

REPORT ON DETERMINATIONS MADE FOR —

Mr. Melvin H. Jones
P. O. Box #1196
Wickenburg, Arizona 85358

| SAMPLE MARKS | METALS | Amount per Ton Ozs. | Amount per Ton Hds. | PER CENT | Value per Ton Dollars | Value per Ton Cents |
|---|---|---|---|---|---|---|
| "Greenwood" | | | | | | |

IDENTIFICATION

This sample is a Mica Schist rock.

It consists of the seams of hard translucent white Quartz (silica) laminated alternately with the near-black to golden yellow flakes of Biotite Mica (potassium, magnesium, iron aluminum silicate).

The sample is slightly radioactive, indicating a content of uranium up to 0.03 to 0.04%, or Thorium up to 0.1%

There are no indications of the presence of any other valuable metals.

THE COLORADO ASSAYING COMPANY

GOLD AT_____PER OUNCE SILVER AT_____PER OUNCE

LEAD AT_____PER UNIT COPPER AT_____PER UNIT

By Ed Phillips

Rev. Form
Rev. 07/53

FILE 6-2-6

PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY O. N. Hart and D. L. Bolton

DATE(S) EXAMINED January 21, 1953

1. [illegible]

| NUMBER | TYPE AND WIDTH | RADIOACTIVITY Eu | RADIOACTIVITY U |
|---|---|---|---|
| F-0100 | Chip, 1' | 0.078 | 0.11 |
| F-0101 | Sel. Chip, 10" | 0.21 | 0.36 |
| F-0178 | Channel, 3.3' | 0.046 | |
| F-0179 | Channel, 2.4' | 0.021 | |
| F-0180 | Channel, 3.8' | 0.020 | 0.013 |
| F-0181 | Channel, 3.2' | 0.047 | 0.066 |
| F-0182 | Channel, 3.3' | 0.054 | |
| F-0183 | Channel, 2.7' | 0.021 | |
| F-0184 | Channel, 4.4' | 0.017 | 0.007 |
| F-0185 | Channel, 2.5' | 0.041 | |
| F-0186 | Channel, 2.5' | 0.048 | <0.003 |

2. STATE Arizona COUNTY Mohave

DISTRICT Greenwood Mining District

NEAREST TOWN Signal, Arizona

PROPERTY State Mine

LOCATION:
SE¼ sec. 4 T. 13N R. 12W

3. TYPE OF EXAMINATION:
Scintillometer: surface and underground

4. DIRECTIONS TO DEPOSIT:
Nine miles east of Signal, Arizona, through the first wash after making the crossing through the Sandy River 5 miles NE from Signal.

5. OWNER OR OPERATOR: D. M. Berger
ADDRESS: Kingman, Arizona

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:

Production unknown. 150' x-cut tunnel, 35' inclined shaft, 65' drift, & surface trenches.

7. RADIOACTIVITY. Maximum scintillometer readings: 500 cps in 150' x-cut tunnel 100' from portal on west wall. Background 100 cps. Max. Geiger counter reading .15 MR/hr at 120' from portal in 150' x-cut tunnel.

8. DESCRIPTION OF DEPOSIT *(Discuss under: A. Topography, B. Geology, C. Mineralogy)*

A. Rolling hills with deep washes, jeep road to mine up wash.

B. 6' gold quartz vein striking N.60°W, dipping 35° S., in a host rock of pink coarse granite porphyry. Vein is composed of quartz with hematite band.

C. Quartz, gold, silver, hematite, limonite.

11. PROOF OF OWNERSHIP RECEIVED? No
PERMISSION TO PUBLISH RECEIVED? No

12. MAP None

13. OTHER INVESTIGATIONS:

Unknown.

14. ADDITIONAL INFORMATION:

None

15. SUPPLEMENTARY RECONNAISSANCE REPORT TO FOLLOW? Yes

427

RLR
6/61

FILE A-34

PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY R. L. Robison
DATE(S) EXAMINED 9/30/55

2. STATE Arizona COUNTY Mohave

DISTRICT Greenwood

NEAREST TOWN Wikieup

PROPERTY Madrill and Leival Claims

1. SAMPLES

| NUMBER | TYPE AND WIDTH | RADIOACTIVITY |
|---|---|---|
| | | $UO_3$ |
| A-3689-1 | Select | 0.07 |
| A-3689-2 | Select (Samarskite) | 8.0 |

LOCATION:
SEC. 29 T. 14 N R. 12 W

3. TYPE OF EXAMINATION:
Surface Radiometric

4. DIRECTIONS TO DEPOSIT: From Wikieup go S on Highway 93 approximately 9 mi.; turn R on Signal Road; proceed 7.9 mi.; turn L and go 1.4 mi. to ranch; follow jeep road 2.8 mi. to property.

5. OWNER OR OPERATOR: R. J. Fitzpatrick
ADDRESS: 9034 South Budlong Avenue, Los Angeles 44, California

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: Previously mined for tungsten. One 100' adit and 7 prospect pits.

7. RADIOACTIVITY: B.G. 0.03 MR/hr.
Max. 1.20 MR/hr.

8. DESCRIPTION OF DEPOSIT *(Discuss under: A. Topography, B. Geology, C. Mineralogy)*

A. Very rough mountainous terrain.

B. Several large pegmatite dikes trending NE-SW through pre-Cambrian granite.

C. Samarskite and allanite.

[redacted]

11. PROOF OF OWNERSHIP RECEIVED? NO
PERMISSION TO PUBLISH RECEIVED? NO

12. MAP:

NONE

13. OTHER INVESTIGATIONS:

NONE

14. ADDITIONAL INFORMATION:

NONE

15. SUPPLEMENTARY RECONNAISSANCE REPORT TO FOLLOW? NO

[redacted]

3

428

SL40
8/5/50

FILE A-81*

# PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY R. L. Robison
DATE(S) EXAMINED 1-17-56

2. STATE Arizona COUNTY Mohave
DISTRICT Artillery Mountains
NEAREST TOWN Stovall
PROPERTY Candy Bar Gp.

LOCATION: Unsurveyed
SEC. ____ T. ____ R. ____

1. SAMPLES

| NUMBER | TYPE AND WIDTH | RADIOACTIVITY |
|---|---|---|
| A 12159-1 | Chip | .05 $eU_3O_8$ |
| A 12159-2 | Grab | .07 " |

3. TYPE OF EXAMINATION:

Surface Radiometric

4. DIRECTIONS TO DEPOSIT: Where Stovall Road crosses the Bill Williams River, turn up river on jeep road. At junction of Santa Maria and Big Sandy take left fork up Big Sandy. Follow for 6.3 miles to property.

5. OWNER OR OPERATOR:
ADDRESS: J. R. Saunders
Wendep, Arizona

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:

One small (10') adit

7. RADIOACTIVITY:

Scintillator III BG .02 MR/hr.
High .90 MR/hr.

8. DESCRIPTION OF DEPOSIT *(Discuss under: A. Topography, B. Geology, C. Mineralogy)*

A. Sharp high ridges with steep north slope and more gentle south slope. Deep narrow canyons.

B. Bedded mudstones and sandstones, overlain by red volcanic flow rock, and underlain by red conglomerate. A repetition of beds is evident from one wash to the next indicating step faulting. Radioactive beds of 3' and 5" were noted and could be followed for several hundred yards laterally. Area is highly faulted.

C. No uranium mineral was evident.

[redacted]

11. PROOF OF OWNERSHIP RECEIVED? No
PERMISSION TO PUBLISH RECEIVED? No

12. MAP:

None

13. OTHER INVESTIGATIONS:

None

14. ADDITIONAL INFORMATION:

None

15. SUPPLEMENTARY RECONNAISSANCE REPORT TO FOLLOW? Yes

[redacted]

4

SLEB
8/5/54

429

FILE A-82

PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY R. L. Robinson
DATE(S) EXAMINED 1-19-56

2. STATE Arizona COUNTY Mohave
DISTRICT Artillery Mountains
NEAREST TOWN Stovall
PROPERTY Lucky Four Property
42 Claims

LOCATION: Unsurveyed
SEC. T. R.

1. SAMPLES

| NUMBER | TYPE AND WIDTH | RADIOACTIVITY |
|---|---|---|
| A 12160 | Select | .02 eU3O8 |

3. TYPE OF EXAMINATION:

Surface Radiometric

4. DIRECTIONS TO DEPOSIT: At western edge of Stovall camp near Alamo, take right fork; go 1.0 miles and take right fork; go 2.5 miles farther bearing left at next 3 forks; turn right on private jeep road and proceed 1.0 miles to property.

5. OWNER OR OPERATOR:
ADDRESS: James Dollarhide - Clifford Dollarhide - R. T. Fussell - Roy MacDonald
Box 242, Congress Junction, Arizona

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:

13 dozer cuts on ore horizon and location cuts

7. RADIOACTIVITY:

Scintillator III BG .01 MR/hr.
High .15 MR/hr.

8. DESCRIPTION OF DEPOSIT *(Discuss under: A. Topography, B. Geology, C. Mineralogy)*

A. Basin between two high mountains moderately high, steep sloped ridges between deep, narrow washes.

B. 5' carbonaceous bed in mudstone-limestone series beneath a thrust sheet of gneiss. Can be traced laterally for approximately 1 mile with abundant faulting on either end. Uranium minerals occur as thin secondary coatings on fractures of siliceous material and limestone.

C. Thin coating of tyuyamunite and carnotite on fractures.

[redacted]

11. PROOF OF OWNERSHIP RECEIVED? No
PERMISSION TO PUBLISH RECEIVED? No

12. MAP:

None

13. OTHER INVESTIGATIONS:

None

14. ADDITIONAL INFORMATION:

15. SUPPLEMENTARY RECONNAISSANCE REPORT TO FOLLOW? No

[redacted]

5

431

FILE A-68

PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY M. L. Reyner and R. L. Robison
DATE(S) EXAMINED 3/7/56

1. SAMPLES

| NUMBER | TYPE AND WIDTH | RADIOACTIVITY | |
|---|---|---|---|
| | | $eU_3O_8$ | $cU_3O_8$ |
| A-12071 | 2' chip | .08 | 0.10 |

2. STATE Arizona COUNTY Mohave

DISTRICT Artillery Mountains

NEAREST TOWN Signal

PROPERTY Masterson Group (10 claims)

LOCATION: SEC. 22 T. 12 N R. 13 W

3. TYPE OF EXAMINATION:
Surface radiometric.

4. DIRECTIONS TO DEPOSIT: From Brown's Crossing follow new Signal road NW for 5.4 miles. Turn right on private road and go 0.7 miles to property.

5. OWNER OR OPERATOR: B. J. Masterson and L. M. Burrows
ADDRESS: Box 167
Kingman, Arizona

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS:
Three small prospect pits and four wagon drill holes.

7. RADIOACTIVITY: El Tronics Counter
B.G. .03 MR/hr.
Max. 1.20 MR/hr.

8 DESCRIPTION OF DEPOSIT *(Discuss under: A. Topography, B. Geology, C. Mineralogy)*

A. Parallel E-W ridges and narrow steep walled washes in Artillery Mountains.

B. Limestone and mudstone beds of the Eocene(?) Artillery Formation striking E-W and dipping from 30° - 45°S. Radioactive bed is approximately 100' above Precambrian granite and can be traced for several hundred feet with minor offsets due to small cross faults. Mineralized bed is one to two feet thick and contains some carbonaceous material. A few palm-type fragments were noted.

C. No uranium minerals were observed. Some limonite is present. The radioactive zone appears bleached and may be sheared.

11. PROOF OF OWNERSHIP RECEIVED? No
PERMISSION TO PUBLISH RECEIVED? No

12. MAP: None

13. OTHER INVESTIGATIONS: None

14. ADDITIONAL INFORMATION: None

15. SUPPLEMENTARY RECONNAISSANCE REPORT TO FOLLOW? No

7

# ASSAY CERTIFICATE

McFARLAND & HULLINGER

IRON KING UNIT

Melvin H. Jones
Box 406

Wickenburg, Ariz.

HUMBOLDT, ARIZONA

DATE Feb. 17 1969

| | DESCRIPTION | Au | Ag | $U_3O_8$ | Fe | Pb | Zn | Cu |
|---|---|---|---|---|---|---|---|---|
| | Sample Lievas | | | 0.01 | | | | |
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| | | | | | | | | |
| | Charge=$7.00 | | | | | | | |

REGISTERED ASSAYER
CERTIFICATE EXPIRES
WALTER G. STATHER
DEC. 31, 1969
ARIZONA, U.S.A.

ASSAYER Walter G. Stather

# ASSAY CERTIFICATE

Melvin H. Jones
Box 406

Wickenburg, Ariz.
HUMBOLDT, ARIZONA

~~MCFARLAND & HILLINGER~~

IRON KING UNIT

DATE Feb, 17 1969

| | DESCRIPTION | Au | Ag | $U_3O_8$ | Fe | Pb | Zn | Cu |
|---|---|---|---|---|---|---|---|---|
| | Sample Lievas | | | 0.01 | | | | |
| | 10 lb sample mostly matrix | | | | | | | |
| | Charge=$7.00 | | | | | | | |

REGISTERED ASSAYER
CERTIFICATE EXPIRES
WALTER G. STALLER
DEC. 31, 19
ARIZONA, U.S.A.

ASSAYER Walter G. Staller